# Equity Research



# Data Patterns (India) Ltd.

Recommendation	SUBS	CRIBE	BACKGROUND		
Price Band		Rs. 555-585	Data Patterns (DP)		-
Bidding Date	14 –	16 Dec, 2021	solutions provide	-	-
BRLM	IIFL Sec.,	JM Financial	industry. DP has	•	-
Registrar	Link Intime	India Pvt Ltd	experience of mor		
Sector		Defence	space. Radars ma electronic warfare		
Minimum Retail Applic	ation		contracts and othe		
Number of Shares		25	Details and Object	s of the Issue	
Min. Application Money	1	Rs. 14,625	1	e size is Rs. 588	Cr constitut
Discount to retail		N.A		aggregating to	
		ASBA		aggregating to	-
Payment Mode Financials (Rs Cr)	FY20	FY21		d-up equity cap	
	F120	F121	DP shall utilis	e the proceeds	from the fr
Total Income	156	224	working capita	al requirements	and expand
EBITDA	43	92	Investment Ratior	nale	
Adjusted PAT	21	56		d strategic defe	nce and acr
Valuations	Uppe	er Band	-	ositioned to be	
Market Cap (Rs Cr)		3035		ness positionin	
EPS		10.7			
P/E Ratio		54.6	Indian military	/ radar market	to grow at
EV/ EBITDA		33.3	3.18 Bn		
Enterprise Value (Rs Cr)		3,080	-	book of Rs. 581	Cr (2.6x FY
		3,080	Cr over next 3	•	
Post Issue Shareholding	g Pattern		<ul> <li>Transition fro increase in ret</li> </ul>	m developme	nt stage to
Promoters		46.4%			
Public		53.6%	Valuation and Rec		
Tublic		55.070	DP is a proxy pla	-	-
Offer structure for diff.			capabilities across and an order pipe	-	
Offer structure for diffe		50%	coming years. Eve		
QIB (Including Mutual F			listed peers. High		-
Non-Institutional Invest	ors	15%	capital cycle result	-	
Retail		35%	operations / capit	al employed - a	at 36% over
Post Issue Equity (Rs. in	Cr)	10.377	to subscribe to the		
Issue Size (Rs in Cr)		588	Financials (Rs Cr)	FY19	FY20
Face Value (Rs)		2	Net Revenues Growth	131	156 <b>19%</b>
			EBIDTA	26	43
Jehan Bhadha (+91 22 6	272 017/1		EBITDA Margins	19.5%	27.6%
Sr. Research Analyst	5275 8174)		Adjusted PAT	8	21
jehankersi.bhadha@nii	rmalhang com		Growth		173%
			EPS	1.5	4.1
Mahima Mehta (+91 22	2 6273 8186)		ROCE	16%	27%
Research Analyst			EV/Sales	23.6 121.2	19.8 71.7
			EV/EBITDA	121.2	/1./
mahima.mehta@nirma	lbang.com		P/E	394.1	144.2

ed defence and aerospace electronics nously developed defence products and development capabilities and he defence and aerospace electronics r book with the rest comprising of vionics, BrahMos programme, service

- ting (i) Offer For Sale of up to 0.595 Cr and (ii) Fresh issue of up to 0.41 Cr The offer shall constitute 19.4% of the ompany.
- resh issue for repaying debt, funding ding its Chennai facility.
- rospace electronics solutions provider the 'Make in India' opportunity
- y in-house design, development and le segments
- ~11% CAGR till 2030 and reach USD
- (21 revenue) and pipeline of Rs. 1500
- o production stage resulting in an

on of defence products. With strong ook of Rs. 581 Cr (2.6x FY21 revenue) s on track to deliver good growth in ote that it's growth has outperformed ompensates for the lengthy working w based ROCE (pre-tax cash flow from FY19-21). We recommend investors

to subscribe to the	e issue for listin	g gains as well a	as from a long te	rm perspective.
Financials (Rs Cr)	FY19	FY20	FY21	H1FY22
Net Revenues	131	156	224	96
Growth		<b>19%</b>	<b>43%</b>	117%
EBIDTA	26	43	92	38
EBITDA Margins	<b>19.5%</b>	27.6%	41.1%	<b>39.2%</b>
Adjusted PAT	8	21	56	23
Growth		<b>173%</b>	164%	Loss to Profit
EPS	1.5	4.1	10.7	4.5
ROCE	16%	27%	43%	-
EV/Sales	23.6	19.8	13.7	-
EV/EBITDA	121.2	71.7	33.3	-
P/E	394.1	144.2	54.6	-
Source: Company data,	NBRR			





# **Company Background**

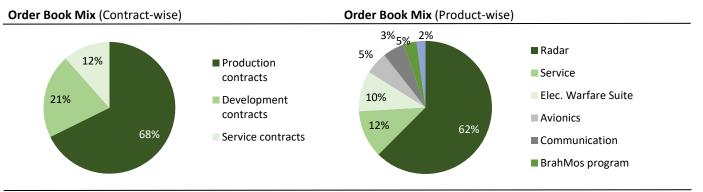
Data Patterns (DP) is one of the few integrated defence and aerospace electronics solutions provider catering to the indigenously developed defence products industry. DP has proven in-house design and development capabilities and experience of more than three decades (including through its erstwhile subsidiary) in the defence and aerospace electronics space.

DP has design capabilities across the entire spectrum of strategic defence and aerospace electronics solutions including processors, power, radio frequencies (RF) and microwave, embedded software and firmware and mechanical engineering. Its core competencies include electronic hardware design and development, software design and development, firmware design and development, mechanical design and development, product prototype design and development, functional testing and validation, environment testing and verification and engineering services opportunities. **DP's capabilities across electronics solutions from design to delivery allows it significant advantage in terms of overall development time and cost and also allows it to offer competitive pricing when bidding for defence and aerospace projects.** 

Platform specific products and products certified for ongoing programmes allows DP to be the preferred OEM supplier for such qualified product requirements, driving growth and revenue visibility over many years. DP's design and development capabilities have allowed it to develop complete systems as well as sub-systems for various strategic defence and aerospace electronics solutions. These systems have found applications on various platforms and programmes such as the Tejas Light Combat Aircraft ("LCA"), the Light Utility Helicopter ("LUH"), BrahMos missile programme, precision approach radars and various communications intelligence ("COMINT") and electronic intelligence ("ELINT") systems.

DP has invested in and developed a reusable building block model leading to capabilities across various product domains. This approach has allowed it to achieve better margins due to spreading out of development costs over multiple programmes, in addition to saving on development time for new products. Several of its existing products or their component modules or building blocks are pre-approved by its customers, especially defence-sector public sector undertakings (DPSUs) and government ministries and departments, also allowing it the benefit of reduced lead times for development of new products.

With an order book of Rs. 581 Cr as on Sep, 2021, which has increased from Rs. 179 Cr as on Mar, 2018 to Rs. 498 Cr as on Mar, 2021 at a CAGR of 41%, indicating a scalable business model. DP expects order book to keep increasing as it faces limited indigenous competition, and high entry barriers due to the development and qualification cycle of both, product and platform. The orders in hand reflect products that have progressed from the development to production phase, thereby enabling rapid growth of turnover and profits. Further, 15% of its revenue in FY21 was contributed by global clients.







# **Investment Rationale**

# Integrated and strategic defence and aerospace electronics solutions provider which is well positioned to benefit from the Make in India opportunity

With DPSUs focussing on specialisation; and integration & subcomponent manufacturing being outsourced to the private industry, there are resultant expanded opportunities for the private sector. DP's focus on building complete systems from the building blocks and sub-systems already developed, provides a higher value addition while distributing development costs. DP is focussed on developing complete systems and sub-system solutions in domains such as radars, electronic warfare, communication systems, RF and microwave, avionics, missile and torpedo electronics, fire and launch control systems, space based systems and automatic test equipment.

Driven by defence policies and government initiatives that are more predisposed towards procuring equipment from the private sector, companies like DP that already have strong business relationships with DPSUs, DRDO and larger private defence companies, as well as the R&D and manufacturing capability to build end-to-end solutions are likely to emerge as winners.

### Solutions indigenously designed and developed by DP



Indigenously developed fire control system for the BrahMos missile programme



Developed Seaking automated test equipment for INS Shikra

Designed and developed the second launch pad countdown system for delivery to the Indian government space organization



Laser guided bomb kit tester



Designed and developed Primary Surveillance Radar for coastal surveillance for the Indian government space organization



Satellite bus management system



Digital flight control computer





## Superior business positioning

DP is well positioned to capture the evolving opportunities in the defence sector with DPSUs vacating the development and integration works to accommodate more private players. DP's capabilities stand well differentiated because the company has 100% in house design, development and manufacturing capabilities across segments. Its past track record of building technologically complex products for DRDO and DPSUs have given the company a foundation to build its own products.

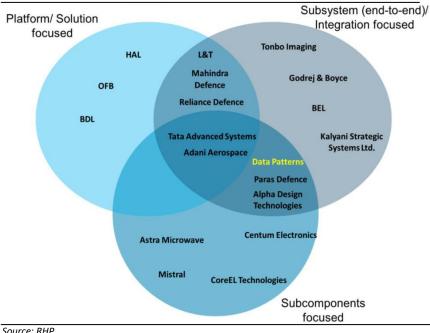
DP offers products catering to the entire spectrum of aerospace and defence platforms including space, air, land and sea. The company has end-to-end capabilities to build and deliver complete systems, with their design and manufacturing capabilities being completely in-house.

#### Product capability comparison of Indian private defence companies

= High le	vel capability			= Mid le	vel ca	pability				= No ca	pability
Company	Radars - Tracking & Surveillance	Radars - Multimission	Radars - Specialized (Stealth Detection etc.)	Seekers and Electronics for Missiles/ Torpedoes/ Sonbuoys	EW	Communi cations and SDR	Ground Stations	Fire Control Systems	Avionics	Nano and Micro Satellites	Testing
Data Patterns											
L&T (Defence Engineering Revenues)											
BEL	2										
Paras Defence	2										
Mahindra Defence Systems	7										
Tata											
Astra Microwave Products						8					
Godrej & Boyce											
Centum Electronics											
Alpha Design Technologies						1					
Adani Aerosapce & Defence Ltd.											
CoreEl Technologies											
Mistral Solutions											

Source: RHP

#### Indian defence suppliers - anticipated future positioning

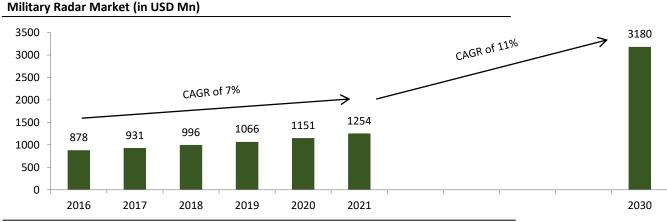




# NIRMAL BA

### Indian military radar market to grow at ~11% CAGR till 2030

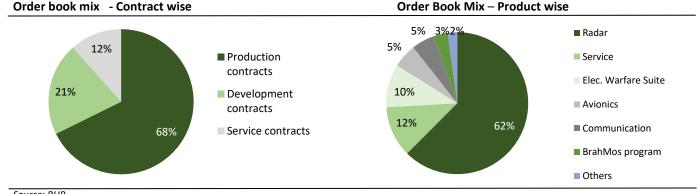
Indian military radar (62% of DP's order book) market stands at USD 1.25 Bn in 2021 and is expected to reach USD 3.18 Bn by 2030 growing at a CAGR of 11%. This presents a large opportunity considering DP's order book base for radars is at Rs. 364 Cr.



Source: Frost & Sullivan

#### Strong order book and pipeline

As on Sep 2021, DP had an order book of Rs. 581 Cr (executable in next 2 years), including orders from the Indian government defence ministry, BrahMos, DRDO, the Indian government space organisation, HAL, BEL and a DPSU involved in the missile space. DP is engaged in the supply of products to several prestigious defence projects in India, including the LCA (Light Combat Aircraft), the HAL Dhruv, LUH (Light Utility Helicopters) and the BrahMos missile programme. Due to diversification of products and services over the years, backed by design and development capabilities, DP has grown its order book from Rs. 81 Cr as on FY17 to Rs. 581 Cr, as on Sep, 2021. The company is expected to be a major participant in at least Rs. 1500 Cr worth of contracts in the next 3 years.



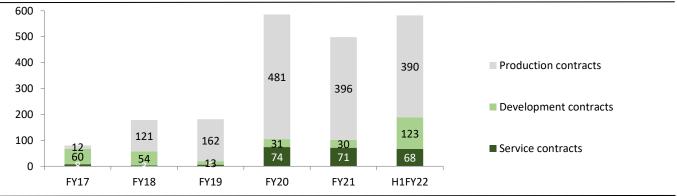




Transition from development stage to production stage resulting in an increase in return ratios

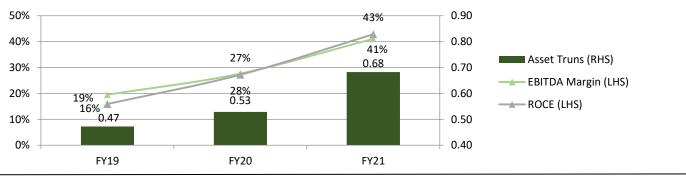
Since its initial days, the company focused on development of defence products and solutions rather than merely component manufacturing. Developing own products is a long gestation business. During the development stage, the expenses are as high as the revenue and thus financials remained subdued for the company historically. However, over the last five years, DP has transitioned from the developmental stage to production stage. As reflected in the order book below, the production contracts have increased from just Rs. 12 Cr in FY17 to Rs. 390 Cr in Sep 2021. As the revenue mix of production contracts keeps rising, the margins, asset turns and ROCE shall keep increasing.

Order book over last 5 years



Source: RHP

### Improvement in profitability ratios







# Concerns

**Competition:** Most of the system level products delivered to DRDO or the Indian government space organisation are on single vendor basis, though the initial sub-system/component level contracts may have been obtained through a tender process based on lowest quote basis. Competition is mainly from companies like L&T, BEL, Mahindra Defense Systems, Astra Microwave Products, Alpha Design Technologies, Mistral Solutions, CoreEl Technologies and others.

**High dependence on GOI at 53% of FY21 revenue:** A decline or reprioritisation of the Indian defence budget, reduction in orders, termination of existing contracts, delay of payments could have a material impact on the company's financials.

**Business needs high working capital**: As majority of the revenue accrues from GOI, the receivables and inventory for DP are elevated at 254 days and 120 days respectively leading to an elongated working capital cycle of 339 days. This has led to mediocre EBITDA – to - operating cash flow conversion at 54% over the last 3 years.

**Covid led restrictions could impact the business in the short run:** Any disruptive situation such as re-introduction of lockdowns due to Covid-19 would impact business continuity and is likely to lead to impact revenue and profitability.

# Valuation and Recommendation

DP is a proxy play on India's indigenization of defence products. With strong capabilities across segments, robust order book of Rs. 581 Cr (2.6x FY21 revenue) and an order pipeline of Rs. 1500 Cr, DP is on track to deliver good growth in coming years. Even on historical basis, we note that it's growth has outperformed listed peers. Higher margins more than compensates for the lengthy working capital cycle resulting in satisfactory cash flow based ROCE (pre-tax cash flow from operations / capital employed - at 36% over FY19-21). We recommend investors to subscribe to the issue for listing gains as well as from a long term perspective.

FY21 Figures	Midhani	Astra Micro	Apollo Micro	Avantel	Centum Elec.	Paras	AVG.	Data Patterns
Revenue	813	641	203	78	817	143	449	224
CAGR (FY17-21)	1%	13%	0%	23%	4%	6%	8%	46%
Order Book / Revenue	1.7	2.7	NA	NA	1.2	2.1	1.9	2.6
EBITDA Margin	30.3%	12.0%	19.2%	28.6%	10.8%	30.3%	21.9%	41.1%
Asset Turns (x)	0.7	0.9	0.5	1.2	1.4	0.4	0.8	0.7
Wkg Cap Days	105	283	575	42	123	387	253	339
Pretax CFO/EBITDA (FY19-21)	131%	3%	1%	120%	99%	8%	<b>60%</b>	54%
Pretax CFO/Cap Emp (FY19-21)	25%	0%	0%	38%	15%	1%	13%	36%
ROCE (PBIT/Cap Emp)	19%	10%	7%	30%	8%	11%	14%	43%
ROE	15%	5%	3%	23%	8%	8%	10%	27%
EV/Sales	4.4	3.6	1.6	3.6	1.3	19.7	5.7	13.7
EV/EBITDA	14.6	29.6	9.3	12.8	11.7	64.1	23.7	33.3
P/E	20.9	77.5	22.7	20.1	43.2	140.4	54.1	54.6

#### **Listed Private Defence Players**

Source: RHP, NBRR



Data Patterns (India) Ltd.

Equity Research

# **Financials**

61.4 425%

+60.25 🔺

P&L (Rs. Cr)	FY19	FY20	FY21	H1FY22
Net Revenue	131	156	224	96
% Growth		19%	<b>43</b> %	117%
cogs	49	56	70	21
% of Revenues	37%	<b>36%</b>	<b>31%</b>	22%
Employee Cost	38	42	48	28
% of Revenues	28.7%	27.1%	21.6%	29.2%
Other expenses	19	15	13	9
% of Revenues	14.4%	9.3%	5.9%	9.8%
EBITDA	26	43	92	38
EBITDA Margin	<b>19.5%</b>	27.6%	41.1%	<b>39.2</b> %
Depreciation	6	5	6	3
Other Income	1	4	3	1
Interest	11	13	15	5
РВТ	10	28	75	31
Тах	3	7	19	8
Tax rate	26%	26%	25%	25%
ΡΑΤ	8	21	56	23
% Growth		173%	164%	NA
EPS (Post Issue)	1.5	4.1	10.7	4.5

FY19	FY20	FY21	H1FY22
19.5%	27.6%	41.1%	39.2%
5.9%	13.5%	24.8%	24.1%
6%	14%	27%	-
16%	27%	43%	-
	19.5% 5.9% 6%	19.5%27.6%5.9%13.5%6%14%	19.5%27.6%41.1%5.9%13.5%24.8%6%14%27%

Turnover Ratios	FY19	FY20	FY21	H1FY22
Debtors Days	287	270	254	-
Inventory Days	241	186	120	-
Creditor Days	44	40	20	-
Asset Turnover (x	0.5	0.5	0.7	-

Valuation Ratios	FY19	FY20	FY21	H1FY22
Price/Earnings (x	394.1	144.2	54.6	-
EV/EBITDA (x)	121.2	71.7	33.3	-
EV/Sales (x)	23.6	19.8	13.7	-
Price/BV (x)	22.8	19.8	14.6	-

Source: Company Data, NBRR

Balance Sheet (Rs. Cr)	FY19	FY20	FY21	H1FY22
Share Capital	1.7	1.7	1.7	9.3
Reserve & Surplus	131	152	206	207
Networth	133	153	208	217
Total Loans	60	62	33	52
Other non-curr liab.	31	18	30	16
Trade payable	16	17	12	10
Deferred Tax Liability (Ne	1	1	1	1
Provisions	6	7	9	10
Current tax Liabilities	1	6	5	12
Other curr liab.	29	31	30	38
Total Equity & Liab.	277	295	328	356
Fixed Assets & CWIP	36	33	33	41
Inventories	87	79	74	87
Other non cur fin assets	39	46	34	60
Cash & Bank	0	2	9	8
Debtors	103	116	156	135
Other Financial Assets	0	4	5	6
Other Current assets	12	15	18	20
Total Assets	277	295	328	356
Total Assets	2//	255	520	330
Cash Flow (Rs. Cr)	FY19	FY20	FY21	H1FY22
Cash Flow (Rs. Cr)	FY19	FY20	FY21	H1FY22
Cash Flow (Rs. Cr) EBITDA	FY19	<b>FY20</b> 43	<b>FY21</b> 92	H1FY22 38
Cash Flow (Rs. Cr) EBITDA Provisions & Others	FY19 26 -	<b>FY20</b> 43 1	<b>FY21</b> 92 0	H1FY22 38 0
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC	FY19 26 - 26	FY20 43 1 45	<b>FY21</b> 92 0 <b>92</b>	H1FY22 38 0 38
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC	FY19 26 - 26 (29)	FY20 43 1 45 (28)	<b>FY21</b> 92 0 <b>92</b> (18)	H1FY22 38 0 38 (48)
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax	FY19 26 - 26 (29) (1)	FY20 43 1 45 (28) (3)	<b>FY21</b> 92 0 <b>92</b> (18) (19)	H1FY22 38 0 <b>38</b> (48) (0.3)
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations	FY19 26 - 26 (29) (1) (4)	FY20 43 1 45 (28) (3) 13	FY21 92 0 92 (18) (19) 55	H1FY22 38 0 38 (48) (0.3) 10
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets	FY19 26 - (29) (1) (4) (1)	FY20 43 1 45 (28) (3) 13 (1)	<b>FY21</b> 92 0 <b>92</b> (18) (19) <b>55</b> (6)	H1FY22 38 0 38 (48) (0.3) 10
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst.	FY19 26 - (29) (1) (4) (1) 0	FY20 43 1 45 (28) (3) 13 (1) 0	FY21 92 0 92 (18) (19) 55 (6) 1	H1FY22 38 0 38 (48) (0.3) 10 (11)
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received	FY19 26 - (29) (1) (4) (1) 0 1	FY20 43 1 45 (28) (3) 13 (1) 0 3	FY21 92 0 92 (18) (19) 55 (6) 1 2	H1FY22 38 0 38 (48) (0.3) 10 (11) 1
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received CF from Investing	FY19 26 (29) (1) (1) (1) (1) 0 1 0	FY20 43 1 45 (28) (3) 13 (1) 0 3 1	FY21 92 0 92 (18) (19) 55 (6) 1 2 (3)	H1FY22 38 0 38 (48) (0.3) 10 (11) 1 (10)
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Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received CF from Investing Proceeds/(Repayment) Lease Liability payment	FY19 26 (29) (1) (1) (1) (1) 0 1 0 15 (2)	FY20 43 1 45 (28) (3) 13 (1) 0 3 1 2 (2)	FY21 92 0 92 (18) (19) 55 (6) 1 2 (3) -28 (2)	H1FY22 38 0 38 (48) (0.3) 10 (11) 1 (10) 19 (1)
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received CF from Investing Proceeds/(Repayment) Lease Liability payment Interest & Dividend paid	FY19 26 - (29) (1) (4) (1) 0 1 0 15 (2) (11)	FY20 43 1 45 (28) (3) 13 (1) 0 3 1 2 (2) (14)	FY21 92 0 92 (18) (19) 55 (6) 1 2 (3) -28 (2) (15)	H1FY22 38 0 38 (48) (0.3) 10 (11) 1 (10) 19 (1) 19
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received CF from Investing Proceeds/(Repayment) Lease Liability payment Interest & Dividend paid CF from Financing	FY19 26 (29) (1) (4) (1) 0 1 0 15 (2) (11) 2	FY20 43 1 45 (28) (3) 13 (1) 0 3 1 2 (2) (14) (14)	FY21 92 0 92 (18) (19) 55 (6) 1 2 (3) -28 (2) (15) (45)	H1FY22 38 0 38 (48) (0.3) 10 (11) 1 (10) 19 (1) 19 (1)
Cash Flow (Rs. Cr) EBITDA Provisions & Others Op. profit before WC Change in WC Less: Tax CF from operations Addition to assets (Purchase)/Sale of invst. Interest Received CF from Investing Proceeds/(Repayment) Lease Liability payment Interest & Dividend paid CF from Financing Net Change in cash	FY19 26 (29) (1) (1) (1) (1) 0 1 0 15 (2) (11) 2 (2)	FY20 43 1 45 (28) (3) 13 (1) 0 3 (1) 0 3 1 2 (2) (14) (14) (14) 1	FY21 92 0 92 (18) (19) 55 (6) 1 2 (6) 1 2 (3) -28 (2) (15) (45) 7	H1FY22 38 0 38 (48) (0.3) 10 (11) 1 (10) 19 (1) 19 (1) (1)





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